

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B04012026-2	
Date: 3/31/2026		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-027 - PETTY HARBOUR BRIDGE - R			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	P3 - Poor		
		Bearing Seat:	F1 - Fair		
Comments:	- Assumed condition of buried concrete footings. - Wingwalls have damp hairline pattern cracks throughout. - West abutment face has numerous medium vertical cracks. Abutment face/bearing seat northwest front corner has a narrow to medium longitudinal crack. Some areas were delaminated. - Exterior bearing on northwest corner has poor contact. - East abutment face has severe erosion/disintegration around the waterline. Reinforcement grid like voids visible near the midpoint. Towards the northeast corner, a void is opening within the concrete along the water line. Southeast bearing seat and abutment corner has damp narrow to medium pattern cracks with moderate rust leachate/staining. Limited inspection due to deep fast flowing water.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	P - Poor		
Comments:	- Deck soffit on the northwest corner has a small spall under the expansion gap. Single bar exposed with severe corrosion. Spall caused due to low cover. - Deck soffit towards the southwest corner damp throughout with a dominate transverse crack with moderate efflorescence and rust leachate. Water leachate also seeping between diaphragm/girder connection in vicinity. - Deck soffit exterior drip beads have visible dampness and efflorescence along the length. Delaminations possible. No visible spalls. - Exterior girder end wedges cracked, delaminated & spalled. Interior girder ends not inspectable due to diaphragms. - One interior girder on the west abutment has delaminations and spalls exposing reinforcement with severe corrosion to the underside of the bottom flange. - Exterior girders sloped portion of the bottom flange has medium to wide full length longitudinal cracks. - All girder webs have narrow pattern cracks towards the west support. East support not inspectable. Local cracks to girder top flanges in some locations. - Expansion joint concrete end dams have numerous concrete potholes/spalls exposing reinforcement. Armoring holding seal torn in some locations causing sharp protrusions. Both joints leaking.				
DECK					
Condition:	P3 - Poor	Curbs:	F1 - Fair		
Hand Rail:	P - Poor	Roadway Condition:	P1 - Poor		
Approach Rail:	P - Poor				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Structure rail is four rail aluminum system on posts. One post twisted/impacted on north side. Northeast corner top rails are missing. All joiners missing at midspan, P1. - Guiderail not of type guiderail structures. All posts have severe rot within their cores, P. - End blocks have damp hairline map cracks in some areas. - Curb tops have medium to wide map cracks and light to moderate scaling throughout. Various areas delaminated. Curb exterior longitudinal construction joint with the deck has light efflorescent staining in some locations. - Bridge deck asphalt surface has numerous potholes with evidence of patching throughout. Bare concrete deck visible in potholes. Likely widespread waterproofing failure across the bridge deck. Large potholes on approach/exits adjacent to expansion joints. P1.				
HYDROLOGY					
Water Velocity:	> 1 m/s	Ice Problem:	N - No Problem		

Water Depth:	> 1 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Possible scour on east abutment. Needs investigation. - Aggradation around west abutment shoreline. Main river channel passing along east abutment. - Significant erosion of fill around southeast wingwall.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$	Replacement Cost:	\$
Recommendations:	- Replace expansion joints. Consider conversion to semi-integral. - Complete concrete deck top repairs, waterproof and resurface. Potential for through slab on southwest corner. - Salvage and replace structure rail. - Replace guiderail with new guiderail structure complete with hazard markers. - Complete concrete repairs to wingwalls, abutments, girders, curbs & deck soffit. - Place fill and new riprap on southeast corner.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Structure needs a rehabilitation to preserve/extend its life.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.